

# **MODULAR ASSEMBLY OF SOFTWARE AND METHOD OF CONFIGURING SAME**

## **ABSTRACT**

A modular assembly of software is configured to perform a particular function. The modular assembly includes a plurality of atoms. Each of the plurality of atoms is designed to execute a defined task. The modular assembly also includes a plurality of maps that invoke a portion of the plurality of atoms allowing for the execution of events that include a portion of the defined task. The modular assembly also includes a map engine that is in communication with each of the plurality of maps. The map engine coordinates an order and timing for the starting of each of the plurality of maps wherein the map engine modifies the order and the timing based on the inputs and variables received thereby before and during the operation of the plurality of maps. Each of the plurality of atoms are defined sets of code, e.g., objects. These atoms each include a design element classifying a type of executable, identifying inputs required to operate the executable and identifying a purpose of the atom. In addition, each of the plurality of atoms includes an execution element that executes the defined task.